

# **Appendix F**

## **LIST OF ACRONYMS**

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## APPENDIX E LIST OF ACRONYMS

AAS	Allison Avoidance System
ACP	Area Contingency Plan
ADT	Average Daily Traffic
AIChE	American Institute of Chemical Engineers
ANS	Alaskan North Slope
ANSI	American National Standards Institute
BAAQMD	Bay Area Air Quality Management District
BACT	Best Available Control Technology
BARCT	Best Available Retrofit Control Technology
BCDC	Bay Conservation and Development Commission
BIA	Bureau of Indian Affairs
BMP	Best Management Practice
BRAC	Base Realignment and Closure Act
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
Cal EPA	California Environmental Protection Agency
Cal/OSHA	California Office of Safety and Health Administration
Caltrans	California Department of Transportation
CAP	Clean Air Plan
CARB	California Air Resources Board
CARE	Community Air Risk Evaluation
CAT	Climate Action Team
CBC	California Building Code
CBI	Clean Bay Inc.
CCAA	California Clean Air Act
CCC	California Coastal Commission
CCR	California Code of Regulations
CDFG	California Department of Fish and Game
CDHS	California Department of Health Services
CDMG	California Division of Mines and Geology
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CGS	California Geological Survey
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
COAs	Certificates of Adequacy
CPFV	Commercial Passenger Fishing Vessel
CRHR	California Register of Historical Resources
CSFM	California State Fire Marshall
CSLC	California State Lands Commission
CWA	Clean Water Act
CZARA	Coastal Zone Act Reauthorization Amendments of 1990

dba	doing business as
DMMO	Dredged Material Management Office
DOD	U.S. Department of Defense
DOI	U.S. Department of the Interior
DWR	California Department of Water Resources
DWT	Dead Weight Tonnage
DWTL	Deep Water Traffic Lane
EBRPD	East Bay Regional Parks District
EEZ	Exclusive Economic Zone
EFH	Essential Fish Habitat
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
ER-L	Effects Range Low
ER-M	Effects Range Median
ESU	Evolutionarily Significant Unit
ETP	Effluent Treatment Plant
FCMA	Fishery Conservation and Management Act
FHWA	Federal Highway Administration
FMP	Fishery Management Plan
FMWT	Fall Mid-water Trawl Program
FRA	Federal Railroad Administration
GHG	Greenhouse Gas
GRR	General Reevaluation Report
HOE	Human Occupational Errors
HWRP	Hamilton Army Airfield Wetlands Restoration Project
IEC	International Electrotechnical Commission
IGS	Inert Gas System
IMO	International Maritime Organization
IPCC	United Nations intergovernmental Panel on Climate Change
L/T	Long Tons
LOOP	Louisiana Offshore Oil Port
LOS	Level of Service
LTMS	Long-Term Management Strategy
MCEs	Maximum Credible Events
MFD	Marine Facilities Division
MHEA	Middle Harbor Enhancement Area
MHHW	Mean Higher High Water
MISA	Marine Invasive Species Act
MLLW	Mean Lower Water Level
MM	Mitigation Measure
MMP	Mitigation Monitoring Program
MMRCP	Mitigation Monitoring, Compliance and Reporting Program
MOT	Marine Oil Terminal
MOTEMS	Marine Oil Terminal Engineering and Maintenance Standards
MOU	Memorandum of Understanding

MPA	Marine Preservation Association
MPRSA	Marine Protection, Research, and Sanctuaries Act
MSC	Military Sealift Command
MSL	Mean Sea Level
MSRC	Marine Spill Response Corporation
MTC	Metropolitan Transportation Commission
MVR	Marine Vapor Recovery
Mw	Moment Magnitude
MWRP	Montezuma Wetlands Restoration Project
NAAQS	National Ambient Air Quality Standards
NAS	Non indigenous Aquatic Species
NEPA	National Environmental Policy Act
NFD	Navel Fuel Depot
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOD	Notice of Determination
NOP	Notice of Preparation
NOS	National Ocean Service
NPDES	National Pollutant Discharge Elimination System
NRC	National Response Center
NRDA	Natural Resource Damage Assessment
NRHP	National Register of Historic Places
OARB	Oakland Army Base
OBRA	Oakland Base Reuse Authority
OCS	Outer Continental Shelf
OPA 90	Oil Pollution Act of 1990
OPR	Office of Planning and Research
OSC	On-Scene Coordinator
OSHA	Occupational Safety and Health Administration
OSPR	Office of Spill Prevention and Response
OSRO	Oil Spill Response Organization
PED	Pre-construction, Engineering and Design
PGA	Peak Ground Acceleration
POLA	Port of Los Angeles
POLB	Port of Long Beach
PORTS	Physical Oceanographic Real Time System
POTW	Publicly Owned Treatment Works
PUC	Public Utilities Commission
RCA	Root Cause Analysis
RCRA	Resource Conservation and Recovery Act
REFEMS	Shell's Refinery Emissions Cap
RMP	Regional Monitoring Program
RMPLS	Richmond Marine-Link Pipeline System
RNA	Regulated Navigational Area
RSPA	Research and Special Programs Administration
RWQCB	Regional Water Quality Control Board

SCAQMD	South Coast Air Quality Management District
SFBBP	San Francisco Bay Bar Pilots
SFEI	San Francisco Estuary Institute
SF-RWQCB	San Francisco Regional Water Quality Control Board
Shell	Shell Oil Products US
SHPO	State Historic Preservation Office
SIOSC	State Interagency Oil Spill Committee
SIP	State Implementation Plan
SJV	San Joaquin Valley
SJVH	San Joaquin Valley Heavy
SOC	Statement of Overriding Considerations
SOLAS	Safety of Life at Sea
SPCC	Spill, Prevention Control and Countermeasures Plan
STARs	Spill Team Area Responders
SWPPP	Storm Water Pollution Prevention Plans
SWRCB	State Water Resources Control Board
TMDL	Total Maximum Daily Load
TPIC	Terminal Person in Charge
TSS	Traffic Separation Scheme
UEL	Upper Exposure Limit
USACE	U.S. Army Corps of Engineers
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VCS	Vapor Control System
VGO	Viscous Gas Oil
VPIC	Vessel Person in Charge
VTC	Vessel Traffic Center
VTS	Vessel Tracking System
WCD	Worst-Case Discharge
WGCEP	Working Group on California Earthquake Probabilities
WQC	Water Quality Criteria
WSA	Wetted Surface Area
WSPA	Western States Petroleum Association
WTA	Water Transit Authority
WTP	Water Treatment Plan

**Chemical Abbreviations**

CO	Carbon Monoxide
HC	Hydrocarbons
HCB	Hexachlorobenzene
HCH	Hexachlorocyclohexane
NMHC	Non-methane Hydrocarbons
NO	Nitric Oxide
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Nitrogen Oxides
O <sub>3</sub>	Ozone
PAH	Polycyclic Aromatic Hydrocarbon
Pb	Lead
PBDE	Polybrominated Diphenylethers
PCB	Polychlorinated Biphenyl
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter of 10 micrograms or less in size
PM <sub>2.5</sub>	Particulate Matter of 2.5 micrograms or less in size
POC	Precursor Organic Compounds
ROC	Reactive Organic Compounds
ROG	Reactive Organic Gases
SO <sub>2</sub>	Sulfur Dioxide
SO <sub>x</sub>	Sulfur Oxides
TBT	Tributyltin
TRPH	Total Recoverable Petroleum Hydrocarbons
VOC	Volatile Organic Compounds
CO <sub>2</sub> E	Carbon Dioxide Equivalent
N <sub>2</sub> O	Nitrous Oxide
CH <sub>4</sub>	Methane

**Units of Measurement**

bbl	Barrel
bpd	Barrels per day
bph	Barrels per hour
bpy	Barrels per year
Btu	British thermal unit
C	Celsius
dB	Decibel
dBA	Decibel on the A-weighted Scale
F	Fahrenheit
gm/hp/hr	Grams per horsepower per hour
hp	Horsepower
km	Kilometer
lb/gal	Pounds per gallon
lb/hp/hr	Pounds per horsepower per hour

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L <sub>dn</sub>	Day-night average noise level
L <sub>eq</sub>	Equivalent continuous sound level
L <sub>max</sub>	Maximum noise level
L <sub>min</sub>	Minimum noise level
m	Meter
mcy	Million cubic yards
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
mg/m <sup>3</sup>	Milligrams per cubic meter
mgd	Million gallons per day
mm/yr	Millimeters per year
ng/L	Nanograms per liter
nm	Nautical mile
ppb	Parts per billion
ppm	Parts per million
ppt	Parts per thousand
psi	Pounds per square inch
psig	Pounds per square inch per square in gauge
psu	Practical salinity units
TUc	Chronic Toxic Unit
ug/kg, pg/kg	Micrograms per kilogram
ug/L, pg/L	Micrograms per liter
ug/m <sup>3</sup> , Φg/m <sup>3</sup>	Micrograms per cubic meter
V/C	Volume to Capacity

## Glossary

Ballast/Ballast Water – heavy material that is placed in the hold of a ship to provide stability.

Barge – any vessel that carries oil in commercial quantities as cargo, but is not equipped with a means of self-propulsion.

Dolphin – a fixed man-made structure which is not connected to shore and is used to [berth](#) vessels against (a berthing dolphin) or [mooring](#) vessels to (a mooring dolphin).

Marine terminal – a facility, including a mobile transfer unit, other than a vessel, located on or adjacent to marine waters in California, used for transferring oil to or from tank vessels or barges. The term references all parts of the facility including, but not limited to, structures, equipment and appurtenances thereto used or capable of being used to transfer oil to or from tank vessels or barges. A marine terminal includes all piping not integrally connected to a tank facility. A tank facility means any one or combination of above ground storage tanks, including any piping which is integral to the tank, which contains crude oil or its fractions and which is used by a single business entity at a single location or site.

Nonindigenous species – invasive species that threatens the diversity or abundance of native species or the ecological stability of infested waters, or commercial, agricultural, aquacultural or recreational activities dependent on such waters.

Oil – any kind of petroleum, liquid hydrocarbons, or petroleum products or any fraction or residues there from, including, but not limited to, crude oil, bunker fuel, gasoline, diesel fuel, aviation fuel, oil sludge, oil refuse, oil mixed with waste, and liquid distillates from unprocessed natural gas.

Operator – when used in connection with vessels, marine terminals, pipelines, or facilities, means any person or entity which owns, has an ownership interest in, charters, leases, rents, operates, participates in the operation of or uses that vessel, terminal, pipeline, or facility. "Operator" does not include any entity which owns the land underlying the terminal or the terminal itself, where the entity is not involved in the operations of the terminal.

Spill or "discharge" – any release of oil into marine waters which is not authorized by any federal, state, or local government entity.

Terminal – marine oil terminal.

Terminal person in charge" or "TPIC" – an individual designated by the terminal operator as the person in charge of a particular oil transfer operation at a particular terminal.

Transfer – any movement of oil including movements of bunker fuel, between the terminal and the vessel by means of pumping, gravitation or displacement. The term "transfer" also includes those movements of oil to, from or within any part of the terminal or vessel that are directly associated with the movement of oil or bunker fuel between the terminal and the vessel. (bb) "Vessel" means every description of watercraft or other artificial contrivance, used or capable of being used, as a means of transportation on water and includes, but is not limited to, tank vessels and barges.

Vessel person in charge or "VPIC" – the person in charge of the vessel's oil transfer operations.